

FORM PTO-1449  INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1488.0950001	APPLICATION NO. 09/030,832
		APPLICANT HANNA et al.	
		FILING DATE February 26, 1998	GROUP 1801

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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BL	AL1	WO 96/06862	03/07/1996	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

BL	AR	1	Adams, M.D. et al., "Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence," <i>Nature</i> 377(Supp.):3-174 (1995)
BL	AS	1	Adodra, S. and Hales, T.G., "Potentiation, activation and blockade of GABA <sub>A</sub> receptors of clonal murine hypothalamic GT1-7 neurones by propofol," <i>Br. J. Pharmacol.</i> 115(6):953-960 (1995)
BL	AT	1	Amann, E. et al., "Tightly regulated tac promoter vectors useful for the expression of unfused and fused proteins in <i>Escherichia coli</i> ," <i>Gene</i> 69(2):301-315 (1988)

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<i>BC</i>	AR	2	Bateson, A.N. et al., "γ-Aminobutyric Acid <sub>A</sub> Receptor Heterogeneity Is Increased by Alternative Splicing of a Novel β-Subunit Gene Transcript," <i>J. Neurochem.</i> 56(4):1437-1440 (1991)
<i>BC</i>	AS	2	Bell, K. et al., "GABAergic Projection From the Ventral Pallidum and Globus Pallidus to the Subthalamic Nucleus," <i>Synapse</i> 20(1):10-18 (1995)
<i>BC</i>	AT	2	Bergman, H. et al., "Reversal of Experimental Parkinsonism by Lesions of the Subthalamic Nucleus," <i>Science</i> 249:1436-1438 (1990)

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<i>BL</i>	AR	3	Bormann, J. <i>et al.</i> , "Mechanism of Anion Permeation through Channels Gated by Glycine and $\gamma$ -Aminobutyric Acid in Mouse Cultured Spinal Neurones," <i>J. Physiol. (London)</i> 385:243-286 (1987)
<i>BL</i>	AS	3	Buckle, V.J. <i>et al.</i> , "Chromosomal Localization of GABA <sub>A</sub> Receptor Subunit Genes: Relationship to Human Genetic Disease," <i>Neuron</i> 3:647-654 (1989)
<i>BL</i>	AT	3	Butler, A.L. <i>et al.</i> , "Site-Directed Mutagenesis of N-Linked Glycosylation Sites on the $\gamma$ -Aminobutyric Acid Type A Receptor $\alpha 1$ Subunit," <i>Mol. Pharmacol.</i> 46(5):858-865 (1994)

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<i>BL</i>	AR	4	Davies, P.A. et al., "Insensitivity to anaesthetic agents conferred by a class of GABA <sub>A</sub> receptor subunit," <i>Nature</i> 385:820-823 (February 1997)
<i>BL</i>	AS	4	Davies, P.A. et al., "Modulation by general anaesthetics of rat GABA <sub>A</sub> receptors comprised of α1β3 and β3 subunits expressed in human embryonic kidney 293 cells," <i>Br. J. Pharmacol.</i> 120(5):899-909 (March 1997)
<i>BL</i>	AT	4	Gage, P.W. and Chung, S.-H., "Influence of membrane potential on conductance sublevels of chloride channels activated by GABA," <i>Proc. R. Soc. Lond. B</i> 255(1343):167-172 (1994)

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<i>BC</i>	AR	5	Garret, M. et al., "An mRNA Encoding a Putative GABA-Gated Chloride Channel Is Expressed in the Human Cardiac Conduction System," <i>J. Neurochem.</i> 68:1382-1389 (April 1997)
<i>BC</i>	AS	5	Goetz, C.G. and Diederich, N.J., "There is a renaissance of interest in pallidotomy for Parkinson's disease," <i>Nature Med.</i> 2(5):510-514 (May 1996)
<i>BC</i>	AT	5	Gray, R. and Johnston, D., "Rectification of Single GABA-Gated Chloride Channels in Adult Hippocampal Neurons," <i>J. Neurophysiol.</i> 54(1):134-142 (1985)

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<i>BC</i>	AR	6	Greger, V. <i>et al.</i> , "The $\gamma$ -Aminobutyric Acid Receptor $\gamma 3$ Subunit Gene (GABRG3) Is Tightly Linked to the $\alpha 5$ Subunit Gene (GABRA5) on Human Chromosome 15q11-q13 and Is Transcribed in the Same Orientation," <i>Genomics</i> 26:258-264 (1995)
<i>BC</i>	AS	6	Hedblom, E. and Kirkness, E.F., "A Novel Class of GABA <sub>A</sub> Receptor Subunit in Tissues of the Reproductive System," <i>J. Biol. Chem.</i> 272(24):15346-15350 (June 1997)
<i>BC</i>	AT	6	Hicks, A.A. <i>et al.</i> , "Further Evidence for Clustering of Human GABA <sub>A</sub> Receptor Subunit Genes: Localization of the $\alpha_6$ -Subunit Gene (GABRA6) to Distal Chromosome 5q by Linkage Analysis," <i>Genomics</i> 20:285-288 (1994)

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<i>BC</i>	AR	<i>Z</i>	Kirkness, E.F. et al., "Isolation, Characterization, and Localization of Human Genomic DNA Encoding the $\beta 1$ Subunit of the GABA <sub>A</sub> Receptor (GABRB1)," <i>Genomics</i> 10:985-995 (1991)
<i>BC</i>	AS	<i>Z</i>	Knoll, J.H.M. et al., "FISH ordering of reference markers and of the gene for the $\alpha 5$ subunit of the $\gamma$ -aminobutyric acid receptor (GABRA5) within the Angelman and Prader-Willi syndrome chromosomal regions," <i>Human Molecular Genetics</i> 2(2):183-189 (1993)
<i>BC</i>	AT	<i>Z</i>	Korpi, E.R. and Lüddens, H., "Regional $\gamma$ -Aminobutyric Acid Sensitivity of <i>t</i> -Butylbicyclophosphoro[ <sup>35</sup> S]thionate Binding Depends on $\gamma$ -Aminobutyric Acid <sub>A</sub> Receptor $\alpha$ Subunit," <i>Mol. Pharmacol.</i> 44(1):87-92 (1993)

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<i>BC</i>	AR	<u>8</u>	Lasham, A. et al., "Conserved Organization of $\gamma$ -Aminobutyric Acid <sub>A</sub> Receptor Genes: Cloning and Analysis of the Chicken $\beta 4$ -Subunit Gene," <i>J. Neurochem.</i> 57(1):352-355 (1991)
<i>BC</i>	AS	<u>8</u>	Lewohl, J.M. et al., "Expression of the $\alpha_1$ , $\alpha_2$ and $\alpha_3$ isoforms of the GABA <sub>A</sub> receptor in human alcoholic brain," <i>Brain Research</i> 751:102-112 (March 1997)
<i>BC</i>	AT	<u>8</u>	Macdonald, R.L. and Olsen, R.W., "GABA <sub>A</sub> Receptor Channels," <i>Annu. Rev. Neurosci.</i> 17:569-602 (1994)

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<i>BC</i>	AR	9	Matsuyama, S. et al., "GABA modulates neurotransmission in sinus node via stimulation of GABA <sub>A</sub> receptor," <i>Am. J. Physiol.</i> 264(4):H1057-H1061 (1993)
<i>BC</i>	AS	9	McLean, P.J. et al., "Mapping of the α <sub>4</sub> Subunit Gene (GABRA4) to Human Chromosome 4 Defines an α <sub>2</sub> -α <sub>4</sub> -β <sub>1</sub> -γ <sub>1</sub> Gene Cluster: Further Evidence That Modern GABA <sub>A</sub> Receptor Gene Clusters Are Derived from an Ancestral Cluster," <i>Genomics</i> 26:580-586 (1995)
<i>BC</i>	AT	9	McLemore, G.L. et al., "Cardiac Noradrenergic Mechanisms Mediate GABA-Enhanced Ouabain Cardiotoxicity," <i>Pharmacology</i> 49:343-350 (1994)

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<i>BC</i>	AR	<u>10</u>	Peters, J.A. et al., "Modulation of the GABA <sub>A</sub> receptor by depressant barbiturates and pregnane steroids," <i>Br. J. Pharmacol.</i> 94(4):1257-1269 (1988)
<i>BC</i>	AS	<u>10</u>	Rognier, U.C. et al., "A YAC clone map spanning 7.5 megabases of human chromosome band Xq28," <i>Human Molecular Genetics</i> 3(12):2137-2146 (1994)
<i>BC</i>	AT	<u>10</u>	Russek, S.J. and Farb, D.H., "Mapping of the β <sub>2</sub> Subunit Gene (GABRB2) to Microdissected Human Chromosome 5q34-q35 Defines a Gene Cluster for the Most Abundant GABA <sub>A</sub> Receptor Isoform," <i>Genomics</i> 23:528-533 (1994)

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<i>BL</i>	AR	11	Sanna, E. et al., "Actions of the General Anesthetic Propofol on Recombinant Human GABA <sub>A</sub> Receptors: Influence of Receptor Subunits," <i>J. Pharmacol. Exp. Ther.</i> 274(1):353-360 (1995)
<i>BL</i>	AS	11	Sargent, P.B., "The Diversity of Neuronal Nicotinic Acetylcholine Receptors," <i>Annu. Rev. Neurosci.</i> 16:403-443 (1993)
<i>BL</i>	AT	11	Saxena, N.C. and Macdonald, R.L., "Assembly of GABA <sub>A</sub> Receptor Subunits: Role of the δ Subunit," <i>J. Neurosci.</i> 14(11):7077-7086 (1994)

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<i>BC</i>	AR	12	Schmieden, V. <i>et al.</i> , "Agonist pharmacology of neonatal and adult glycine receptor $\alpha$ subunits: identification of amino acid residues involved in taurine activation," <i>EMBO J.</i> 11(6):2025-2032 (1992)
<i>ML</i>	AS	12	Segal, M. and Barker, J.L., "Rat Hippocampal Neurons in Culture: Properties of GABA-Activated Cl <sup>-</sup> Ion Conductance," <i>J. Neurophysiol.</i> 51(3):500-515 (1984)
<i>ML</i>	AT	12	Simmons, D. and Seed, B., "Isolation of a cDNA Encoding CD33, a Differentiation Antigen of Myeloid Progenitor Cells," <i>J. Immunol.</i> 141(8):2797-2800 (1988)

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<i>BC</i>	AR	<u>13</u>	Smith, T.F. and Waterman, M.S., "Comparison of Biosequences," <i>Adv. Appl. Math.</i> 2:482-489 (1981)
<i>BC</i>	AS	<u>13</u>	Sommer, B. <i>et al.</i> , "The Murine GABA <sub>A</sub> Receptor δ-Subunit Gene: Structure and Assignment to Human Chromosome 1," <i>DNA and Cell Biology</i> 9(8):561-568 (1990)
<i>BC</i>	AT	<u>13</u>	Stark, M.J.R., "Multicopy expression vectors carrying the lac repressor gene for regulated high-level expression of genes in <i>Escherichia coli</i> ," <i>Gene</i> 51(2-3):255-267 (1987)

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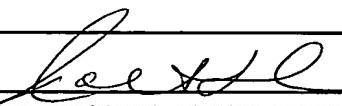
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	14	Verdoorn, T.A. <i>et al.</i> , "Functional Properties of Recombinant Rat GABA <sub>A</sub> Receptors Depend upon Subunit Composition," <i>Neuron</i> 4(6):919-928 (1990)
	AS	14	Wagstaff, J. <i>et al.</i> , "Localization of the Gene Encoding the GABA <sub>A</sub> Receptor β3 Subunit to the Angelman/Prader-Willi Region of Human Chromosome 15," <i>Am. J. Hum. Genet.</i> 49:330-337 (1991)
	AT	14	Whiting, P.J. <i>et al.</i> , "Structure and Pharmacology of Vertebrate GABA <sub>A</sub> Receptor Subtypes," <i>Int. Rev. Neurobiol.</i> 38:95-138 (1995)

EXAMINER		DATE CONSIDERED
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FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 1488.0950001	APPLICATION NO. 09/030,832
		APPLICANT HANNA <i>et al.</i>	
		FILING DATE February 26, 1998	GROUP 1801

## U.S. PATENT DOCUMENTS

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<i>BL</i>	AR	15	Wilcox, A.S. <i>et al.</i> , "Human chromosomal localization of genes encoding the $\gamma$ 1 and $\gamma$ 2 subunits of the $\gamma$ -aminobutyric acid receptor indicates that members of this gene family are often clustered in the genome," <i>Proc. Natl. Acad. Sci. USA</i> 89:5857-5861 (1992)
<i>BL</i>	AS	15	Wilke, K. <i>et al.</i> , "A Gene in Human Chromosome Band Xq28 (GABRE) Defines a Putative New Subunit Class of the GABA <sub>A</sub> Neurotransmitter Receptor," <i>Genomics</i> 45:1-10 (October 1997)
<i>BL</i>	AT	15	Wisden, W. <i>et al.</i> , "The Distribution of 13 GABA <sub>A</sub> Receptor Subunit mRNAs in the Rat Brain. I. Telencephalon, Diencephalon, Mesencephalon," <i>J. Neurosci.</i> 12(3):1040-1062 (1992)

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*Larsen*

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<i>BL</i>	AR	<u>16</u>	Yang, W. <i>et al.</i> , "Identification of the GABA <sub>A</sub> receptor subtype mRNA in human pancreatic tissue," <i>FEBS Lett.</i> 346:257-262 (1994)
<i>BL</i>	AS	<u>16</u>	Zhu, W.J. <i>et al.</i> , " $\delta$ Subunit Inhibits Neurosteroid Modulation of GABA <sub>A</sub> Receptors," <i>J. Neurosci.</i> 16(21):6648-6656 (November 1996)
<i>M</i>	AT	<u>16</u>	NCBI Entrez Nucleotide Query, GenBank Report, Hillier, L. <i>et al.</i> , Accession No. R07883 (1995), and Revision History

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<i>AR</i>	AR	17	NCBI Entrez Nucleotide Query, GenBank Report, Hillier, L. et al., Accession No. R07942 (1995), and Revision History
<i>AS</i>	AS	17	NCBI Entrez Nucleotide Query, GenBank Report, Fujiwara, T., Accession No. C17228 (September 1996), and Revision History
<i>AT</i>	AT	17	NCBI Entrez Nucleotide Query, GenBank Report, Garret, M., Accession No. Y07637 (December 1996), and Revision History

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<i>RL</i>	AR	<u>18</u>	NCBI Entrez Nucleotide Query, GenBank Report, Davies, P.A. et al., Accession No. U66661 (March 1997), and Revision History
<i>RL</i>	AS	<u>18</u>	NCBI Entrez Nucleotide Query, GenBank Report, Hanna, M.C. et al., Accession No. U92281 (January 1998), and Revision History
<i>RL</i>	AT	<u>18</u>	NCBI Entrez Nucleotide Query, GenBank Report, Hanna, M.C. et al., Accession No. U92282 (January 1998), and Revision History

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<i>BL</i>	AR	<u>19</u>	NCBI Entrez Nucleotide Query, GenBank Report, Hanna, M.C. <i>et al.</i> , Accession No. U92283 (January 1998), and Revision History
<i>BR</i>	AS	<u>19</u>	NCBI Entrez Nucleotide Query, GenBank Report, Hanna, M.C. <i>et al.</i> , Accession No. U92284 (January 1998), and Revision History
<i>BR</i>	AT	<u>19</u>	NCBI Entrez Nucleotide Query, GenBank Report, Hanna, M.C. <i>et al.</i> , Accession No. U92285 (January 1998), and Revision History

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<i>BL</i>	AR	<u>20</u>	NCBI Entrez Nucleotide Query, GenBank Report, Wilke, K., Accession No. Y09764 (July 1997), and Revision History
<i>BL</i>	AS	<u>20</u>	NCBI Entrez Nucleotide Query, GenBank Report, Wilke, K., Accession No. Y09765 (July 1997), and Revision History
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*J. A. Wilke*

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